

PACIFIC MARINE TESTING CO.

5807 FOURTH AVENUE SOUTH • SEATTLE, WASHINGTON 98108 • 767-3117

BUILDING 9, SWAN ISLAND • PORTLAND OREGON 97217 • 1-503-289-5749

Seattle, Washington

Report No. 0148

May 15, 1973

*Unknown location
sample location*

Universal Mfg.
14410 N.E. 190th
Woodinville, Washington 98072

Gentlemen:

We hereby certify that we have analyzed four (4) samples of

WATER

submitted by you on April 27, 1973 and we have to report as follows:

Results:

	Sample #1	Sample #2	Sample #3	Sample #4
pH	4.60	5.75	8.70	8.80
Temperature °C	17.6	15.8	15.8	20.8
Suspended Solids mg/l	10.0	9.0	64.0	56.0
Turbidity units	LT 25	LT 25	78	95
Conductivity micromhos/cm	14.15	13.40	53.90	80.00
Acidity as mg/l CaCO ₃	22.0	6.0	34.0	82.0
Oil & Grease mg/l	11.0	9.0	125.0	428.0
BOD mg/l	39.45	1.05	2.57	2.80
Nickel	0.66	0.19	LT 0.05	LT 0.05
Gold	LT 0.1	LT 0.1	LT 0.11	LT 0.1
Copper	0.16	0.76	25.2	20.8
Tin	LT 0.1	LT 0.1	0.1	0.6
Lead	0.15	0.17	0.05	0.1
Chromate	0.7	LT 0.001	LT 0.001	LT 0.001

Results of metals expressed in milligrams per liter

LT - Less than.

Respectfully submitted,

PACIFIC MARINE TESTING CO.

By: *Hagay Lang*

TK/cm

USEPA SF



1486514

APPENDIX "A"

<i>Brand Name (if proprietary)</i>	<i>Chemical Name (if a proprietary product - major constituents given)</i>	<i>Usage</i>		
		<i>Average per day</i>	<i>Max. per day</i>	<i>Unit</i>
Accelerator 19	Mineral acids	1.2	29.	liter
	Wetting agents			
	Acetic acid, glacial, reagent	.7	2.	liter
Al-Chelate	Acetone	3.	10.	liter
	Sodium hydroxide	.9	19.	liter
	Detergent (non-phosphate)			
Aluminum, metal	Chelating agents			
	Aluminum, metal	321	1600	kilogram
	Ammonia, aqua, 28%	27.	54.	liter
AZ-119A Photo Resist				
AZ-119 Thinner	Cellosolve acetate	.35	.7	liter
	Chlorinated solvents			
AZ-303A Developer	Cellosolve acetate	1.	2.	liter
Cataposit 44	Sodium hydroxide	1.8	38.	liter
	Boric acid, NF	.2	2.	kilogram
	Hydrochloric acid	.3	1.4	liter
Cataprep 404	Mineral salts			
	Stannous chloride			
	Palladium metal (complexed w/SnCl ₂)			
Caustic 360L	Mineral salts	.4	45	kilogram
Conditioner 1160B	Sodium hydroxide	4.5	9.	liter
	Wetting agents			
Chromicoat 1-25	Caustic soda, Tech. (sodium hydroxide)	8.5	23	kilogram
	(used in flake and 50% liquid forms)			
Conditioner 1160B	Potassium dichromate	1.1	2.	liter
Copper, metal	Surfactants	.4	8.	liter
	Copper, metal	2.7	15.9	kilogram

	<i>Copper sulfate, pentahydrate</i>	1.2	2.7	kilogram
CP-74 Al	<i>Copper sulfate</i> <i>Sulfuric acid</i>	.8	13.3	liter
CP-74 B	<i>Stabilizers</i> <i>Sodium hydroxide</i>	.8	13.3	liter
CP-74 H	<i>Stabilizers</i>	1.5	4.5	liter
CP-74 M	<i>Copper sulfate</i> <i>Sodium hydroxide</i> <i>Stabilizers</i>	1.6	26.7	liter
CP-74 Q	<i>Copper Sulfate</i> <i>Sulfuric acid</i>	9.0	27.	liter
CX-A	<i>Mineral salts</i> <i>Organics</i>	.4	2.0	liter
CX-B	<i>Organics (molasses primarily)</i> <i>Sulfuric acid</i>	.9	3.	liter
Deoxidizer LNC	<i>Sodium hydroxide</i> <i>Surfactants</i>	1.1	2.	liter
Electroclean 7303	<i>Mineral salts</i> <i>Surfactants</i>	.3	11.4	kilogram
	<i>Ethanol, reagent</i>	.4	.8	liter
Fast Dry Thinner (solvent mix)	<i>Toluene</i> <i>Ethyl Cellosolve</i> <i>Aliphatic solvent</i>	8.	16.	liter
	<i>Fluoboric acid</i>	x .5	2.	;iter
	<i>Formaldehyde</i> (stab. w/ 12% methanol)	3.9	11.8	liter
	<i>Hydrochloric acid, tech. & reagent</i>	18.	75.	liter
	<i>Hydrogen peroxide</i>	1.5	6.	liter
	<i>Isopropanol</i>	3.	4.	liter
	<i>Lime (calcium carbonate)</i>	12.	45.	kilogram

	<i>Lead flouborate (472 g/l)</i>	.5	2.	liter
LPC Replenisher	<i>Flouboric acid Organics (peptone)</i>	.3	.6	liter
LT-26 Immersion Tin - Stannous chloride Hydrochloric acid Thiourea		.3	.9	kilogram
Neutra-clean 7	<i>Boric acid Mineral salts</i>	.7	11.4	kilogram
Neutra-etch V2	<i>Ammonium chloride Ammonia</i>	50.	80.	liter
Oxit	<i>Flouboric acid Citric acid</i>	.5	9.	liter
	<i>Phosphoric acid, reagent, 85%</i>	.4	7.	liter
	<i>Polyurethane based paints</i>	14.	28.	liter
Pre-etch 746W	<i>Sulfuric acid Stabilizers</i>	.1	.5	liter
Q-Flux IR7	<i>Organic acids Isopropanol</i>	4.	19.	liter
Remover 1112A	<i>Chlorinated solvents Detergents</i>	2.2	35.	liter
	<i>Solder, metal (60% Sn, 40% Pb)</i>	1.9	16.	kilogram
	<i>Stannous flouborate (322 g/l)</i>	.5	2.	liter
	<i>Steel, mild</i>	215.	430.	kilogram
	<i>Steel, stainless</i>	20.	40.	kilogram
	<i>Sulfuric acid, tec & reagent</i>	14.	38.	liter
	<i>Trichlorethylene (1,1,1 inhibited)</i>	50.	100.	liter
T-Strip	<i>Flouboric acid Hydrogen Peroxide</i>	1.	9.	liter